

ABSTRACT

The object of the present invention is to provide an oxide superconducting conductor having superior strength and superconductor characteristics, and its production method.

In order to achieve the above object, the present invention provides an oxide superconducting conductor having an oxide superconductor layer obtained by a method in which a raw material gas of an oxide superconductor is chemically reacted on a base material for forming an oxide superconductor provided with an Ag layer having a rolling texture formed on at least one side of a base material containing Ag base material or other base metal, a diffusion layer in which Cu is diffused in Ag is formed on the surface layer of the oxide superconductor layer side of the above base material, and the above oxide superconductor layer is formed on the above diffusion layer; and, an oxide superconducting conductor comprising the sequential generation of a plurality of layers of oxide superconductor containing Cu by CVD on an Ag layer of a base material for forming an oxide superconducting conductor provided with an Ag layer having a rolling texture formed on at least one side of an Ag base material or other base metal, and among the above plurality of oxide superconductor layers, the Cu content of the oxide superconductor layer immediately above the base material is made to have a higher concentration than the Cu content of the other oxide superconductor layers.